

Appendix B

High Economic Growth Case Projections:

**World Energy Consumption
Gross Domestic Product
Carbon Dioxide Emissions
Nuclear Power Capacity**

Table B1. World Total Energy Consumption by Region, High Economic Growth Case, 1990-2020
 (Quadrillion Btu)

Region/Country	History			Projections				Average Annual Percent Change, 1999-2020
	1990	1998	1999	2005	2010	2015	2020	
Industrialized Countries								
North America	100.1	112.7	115.7	131.9	145.4	158.2	171.2	1.9
United States ^a	84.2	94.6	97.0	109.1	119.1	128.7	138.2	1.7
Canada.	10.9	12.1	12.5	14.3	15.7	16.8	17.8	1.7
Mexico	5.0	6.1	6.1	8.5	10.6	12.7	15.2	4.4
Western Europe	59.8	65.8	66.0	73.8	78.2	82.5	88.0	1.4
United Kingdom	9.3	9.9	9.9	11.1	11.8	12.6	13.4	1.4
France	8.8	10.2	10.3	11.6	12.4	13.2	14.2	1.6
Germany	14.8	14.2	14.0	15.9	16.7	17.4	18.3	1.3
Italy.	7.0	8.0	8.0	9.2	9.9	10.6	11.2	1.6
Netherlands	3.4	3.8	3.8	4.2	4.4	4.7	4.9	1.2
Other Western Europe.	16.6	19.8	20.0	21.8	22.9	24.1	26.0	1.3
Industrialized Asia	22.8	27.6	27.9	31.0	32.9	35.0	37.1	1.4
Japan	17.9	21.5	21.7	24.0	25.3	26.7	28.2	1.2
Australasia	4.8	6.1	6.2	7.0	7.6	8.2	8.9	1.7
Total Industrialized	182.7	206.1	209.7	236.8	256.5	275.7	296.3	1.7
EE/FSU								
Former Soviet Union	60.7	38.7	39.2	46.2	52.5	61.3	69.7	2.8
Eastern Europe	15.6	11.9	11.2	12.9	14.8	17.6	20.1	2.8
Total EE/FSU	76.3	50.6	50.4	59.1	67.3	78.9	89.8	2.8
Developing Countries								
Developing Asia	51.0	72.9	70.9	103.9	135.0	172.7	215.4	5.4
China.	27.0	35.3	31.9	45.7	61.5	80.6	102.8	5.7
India	7.8	11.6	12.2	16.4	20.5	25.4	30.6	4.5
South Korea	3.7	6.9	7.3	9.8	11.3	13.5	15.7	3.7
Other Asia	12.6	19.1	19.5	32.0	41.8	53.2	66.3	6.0
Middle East	13.1	19.1	19.3	23.8	30.2	37.3	45.9	4.2
Turkey	2.0	3.0	3.0	3.7	4.6	5.5	6.7	4.0
Other Middle East	11.1	16.1	16.4	20.1	25.6	31.8	39.2	4.2
Africa	9.3	11.6	11.8	15.3	18.0	21.8	25.6	3.8
Central and South America . . .	13.7	19.4	19.8	26.5	34.5	44.7	55.0	5.0
Brazil.	5.7	8.2	8.5	10.3	12.9	15.8	19.0	3.9
Other Central/South America . .	8.1	11.2	11.2	16.2	21.6	28.9	36.0	5.7
Total Developing	87.2	123.0	121.8	169.4	217.6	276.4	341.9	5.0
Total World	346.2	379.7	381.9	465.2	541.4	631.0	728.0	3.1

^aIncludes the 50 States and the District of Columbia. U.S. Territories are included in Australasia.

Notes: EE/FSU = Eastern Europe/Former Soviet Union. Energy totals include net imports of coal coke and electricity generated from biomass in the United States. Totals may not equal sum of components due to independent rounding. The electricity portion of the national fuel consumption values consists of generation for domestic use plus an adjustment for electricity trade based on a fuel's share of total generation in the exporting country.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 1999*, DOE/EIA-0219(99) (Washington, DC, February 2001). **Projections:** EIA, *Annual Energy Outlook 2002*, DOE/EIA-0383(2002) (Washington, DC, December 2001), Table B1; and World Energy Projection System (2002).

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Table B2. World Total Energy Consumption by Region and Fuel, High Economic Growth Case, 1990-2020
 (Quadrillion Btu)

Region/Country	History			Projections				Average Annual Percent Change, 1999-2020	
	1990	1998	1999	2005	2010	2015	2020		
Industrialized Countries									
North America									
Oil	40.4	44.6	45.8	51.8	58.4	64.7	71.2	2.1	
Natural Gas	22.7	26.2	26.8	32.2	36.2	40.5	43.5	2.3	
Coal	20.5	23.5	23.5	26.2	28.1	29.5	32.1	1.5	
Nuclear.	7.0	8.0	8.6	9.3	9.1	8.8	8.8	0.1	
Other.	9.5	10.7	11.4	12.4	13.7	14.8	15.7	1.5	
Total	100.1	112.7	115.7	131.9	145.4	158.2	171.2	1.9	
Western Europe									
Oil	25.8	29.1	28.7	31.6	32.9	34.0	35.1	1.0	
Natural Gas	9.7	13.6	14.3	18.6	21.2	24.3	28.9	3.4	
Coal	12.4	8.8	8.4	7.9	7.8	7.6	7.0	-0.9	
Nuclear.	7.4	8.8	8.9	8.9	9.0	8.7	8.2	-0.4	
Other.	4.5	5.4	5.6	6.7	7.3	8.0	8.8	2.2	
Total	59.8	65.8	66.0	73.8	78.2	82.5	88.0	1.4	
Industrialized Asia									
Oil	12.5	13.7	13.9	15.5	16.4	17.1	17.8	1.2	
Natural Gas	2.5	3.6	3.8	4.3	4.5	5.1	5.9	2.1	
Coal	4.2	5.3	5.4	6.0	6.3	6.5	6.7	1.0	
Nuclear.	2.0	3.2	3.2	3.4	3.7	4.0	4.3	1.5	
Other.	1.6	1.7	1.7	1.8	1.9	2.2	2.4	1.6	
Total	22.8	27.6	27.9	31.0	32.9	35.0	37.1	1.4	
Total Industrialized									
Oil	78.7	87.4	88.4	98.9	107.7	115.8	124.1	1.6	
Natural Gas	35.0	43.5	44.8	55.1	61.9	69.8	78.3	2.7	
Coal	37.1	37.5	37.3	40.1	42.1	43.6	45.8	1.0	
Nuclear.	16.3	20.0	20.6	21.6	21.8	21.6	21.3	0.1	
Other.	15.6	17.9	18.6	21.0	23.0	24.9	26.9	1.8	
Total	182.7	206.1	209.7	236.8	256.5	275.7	296.3	1.7	
EE/FSU									
Oil	21.0	10.9	10.8	14.6	17.8	22.1	25.8	4.2	
Natural Gas	28.8	22.7	22.9	26.3	31.1	37.9	45.2	3.3	
Coal	20.8	11.4	11.1	11.6	11.4	11.1	10.5	-0.3	
Nuclear.	2.9	2.7	2.7	3.3	3.3	3.5	3.4	1.0	
Other.	2.8	3.0	3.0	3.3	3.7	4.3	5.0	2.5	
Total	76.3	50.6	50.4	59.1	67.3	78.9	89.8	2.8	
Developing Countries									
Developing Asia									
Oil	16.0	26.7	27.7	38.8	50.8	66.2	82.7	5.4	
Natural Gas	3.2	6.0	6.4	12.8	17.8	24.4	32.2	8.0	
Coal	27.7	34.5	30.7	42.4	53.5	65.6	80.1	4.7	
Nuclear.	0.9	1.5	1.6	2.5	3.4	4.2	5.6	6.1	
Other.	3.2	4.3	4.6	7.3	9.6	12.3	14.8	5.7	
Total	51.0	72.9	70.9	103.9	135.0	172.7	215.4	5.4	

See notes at end of table.

**Table B2. World Total Energy Consumption by Region and Fuel, High Economic Growth Case, 1990-2020
(Continued)**
(Quadrillion Btu)

Region/Country	History			Projections				Average Annual Percent Change, 1999-2020	
	1990	1998	1999	2005	2010	2015	2020		
Developing Countries (Continued)									
Middle East									
Oil	8.1	10.4	10.5	12.7	15.1	18.0	21.6	3.5	
Natural Gas	3.9	6.9	7.1	8.9	12.4	15.9	20.1	5.1	
Coal	0.8	1.2	1.1	1.3	1.6	1.8	2.0	2.7	
Nuclear.	0.0	0.0	0.0	0.0	0.1	0.1	0.2	—	
Other.	0.4	0.6	0.5	0.8	1.0	1.5	2.0	6.6	
Total	13.1	19.1	19.3	23.8	30.2	37.3	45.9	4.2	
Africa									
Oil	4.2	5.1	5.2	7.4	9.2	11.3	13.7	4.7	
Natural Gas	1.5	2.0	2.1	2.7	3.2	4.0	4.7	3.9	
Coal	3.0	3.7	3.6	4.2	4.5	5.0	5.5	2.0	
Nuclear.	0.1	0.1	0.1	0.1	0.1	0.2	0.2	2.0	
Other.	0.6	0.7	0.7	0.9	1.0	1.3	1.5	3.6	
Total	9.3	11.6	11.8	15.3	18.0	21.8	25.6	3.8	
Central and South America									
Oil	7.0	9.4	9.5	12.4	15.8	19.2	23.1	4.3	
Natural Gas	2.2	3.4	3.5	5.7	9.4	15.1	20.3	8.7	
Coal	0.6	0.9	0.9	1.1	1.3	1.4	1.6	2.8	
Nuclear.	0.1	0.1	0.1	0.2	0.2	0.2	0.3	4.9	
Other.	3.9	5.6	5.7	7.0	7.8	8.8	9.7	2.6	
Total	13.7	19.4	19.8	26.5	34.5	44.7	55.0	5.0	
Total Developing Countries									
Oil	35.2	51.5	52.9	71.4	90.9	114.7	141.2	4.8	
Natural Gas	10.8	18.3	19.2	30.1	42.8	59.5	77.4	6.9	
Coal	32.1	40.3	36.3	49.0	60.8	73.8	89.1	4.4	
Nuclear.	1.1	1.7	1.9	2.8	3.8	4.8	6.3	5.9	
Other.	8.0	11.1	11.5	16.1	19.4	23.8	28.0	4.3	
Total	87.2	123.0	121.8	169.4	217.6	276.4	341.9	5.0	
Total World									
Oil	134.9	149.8	152.2	184.9	216.3	252.6	291.0	3.1	
Natural Gas	74.5	84.5	86.9	111.5	135.9	167.2	200.8	4.1	
Coal	90.0	89.3	84.8	100.7	114.3	128.4	145.4	2.6	
Nuclear.	20.4	24.4	25.3	27.8	28.9	29.9	30.9	1.0	
Other.	26.5	32.0	33.1	40.3	46.1	53.0	59.8	2.9	
Total	346.2	379.7	381.9	465.2	541.4	631.0	728.0	3.1	

Notes: EE/FSU = Eastern Europe/Former Soviet Union. Energy totals include net imports of coal coke and electricity generated from biomass in the United States. Totals may not equal sum of components due to independent rounding. The electricity portion of the national fuel consumption values consists of generation for domestic use plus an adjustment for electricity trade based on a fuel's share of total generation in the exporting country.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 1999*, DOE/EIA-0219(99) (Washington, DC, February 2001). **Projections:** EIA, *Annual Energy Outlook 2002*, DOE/EIA-0383(2002) (Washington, DC, December 2001), Table B1; and World Energy Projection System (2002).

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Table B3. World Gross Domestic Product (GDP) by Region, High Economic Growth Case, 1990-2020
 (Billion 1997 Dollars)

Region/Country	History			Projections				Average Annual Percent Change, 1999-2020
	1990	1998	1999	2005	2010	2015	2020	
Industrialized Countries								
North America	7,723	9,760	10,165	13,417	16,433	19,770	23,595	4.1
United States ^a	6,836	8,675	9,029	11,909	14,552	17,454	20,754	4.0
Canada.	555	665	699	900	1,077	1,246	1,411	3.4
Mexico	332	421	437	608	804	1,070	1,430	5.8
Western Europe	7,597	8,731	8,944	11,076	13,036	15,260	17,794	3.3
United Kingdom	1,146	1,353	1,384	1,750	2,077	2,493	2,944	3.7
France	1,299	1,455	1,499	1,870	2,217	2,560	2,938	3.3
Germany	1,879	2,156	2,187	2,674	3,118	3,623	4,203	3.2
Italy.	1,079	1,188	1,207	1,469	1,719	2,001	2,317	3.2
Netherlands	317	392	407	505	596	700	819	3.4
Other Western Europe.	1,877	2,187	2,260	2,809	3,310	3,882	4,573	3.4
Industrialized Asia	4,054	4,765	4,821	5,530	6,313	7,285	8,336	2.6
Japan	3,673	4,271	4,304	4,887	5,551	6,380	7,256	2.5
Australasia	381	494	516	643	762	905	1,080	3.6
Total Industrialized	19,374	23,256	23,930	30,023	35,783	42,315	49,726	3.5
EE/FSU								
Former Soviet Union	1,009	545	569	838	1,162	1,751	2,447	7.2
Eastern Europe	348	358	363	574	826	1,181	1,656	7.5
Total EE/FSU	1,357	903	932	1,411	1,988	2,932	4,104	7.3
Developing Countries								
Developing Asia	1,739	2,975	3,165	4,925	7,119	10,077	14,093	7.4
China.	427	968	1,037	1,730	2,654	3,911	5,693	8.4
India	268	445	473	727	1,027	1,444	2,018	7.2
South Korea	297	445	493	711	983	1,346	1,827	6.4
Other Asia	748	1,118	1,162	1,757	2,454	3,376	4,554	6.7
Middle East	379	580	577	806	1,084	1,476	2,023	6.2
Turkey	140	196	186	262	352	477	645	6.1
Other Middle East	239	384	391	544	731	999	1,377	6.2
Africa	405	485	499	708	935	1,211	1,554	5.6
Central and South America . . .	1,136	1,467	1,452	2,067	2,770	3,668	4,832	5.9
Brazil	674	810	816	1,166	1,575	2,089	2,761	6.0
Other Central/South America . .	462	657	636	900	1,195	1,578	2,071	5.8
Total Developing	3,660	5,507	5,693	8,505	11,907	16,431	22,501	6.8
Total World	24,392	29,665	30,555	39,940	49,678	61,679	76,330	4.5

^aIncludes the 50 States and the District of Columbia. U.S. Territories are included in Australasia.

Notes: EE/FSU = Eastern Europe/Former Soviet Union. Totals may not equal sum of components due to independent rounding.

Sources: DRI-WEFA, *World Economic Outlook*, Vol. 1 (Lexington, MA, 3rd Quarter 2001); Energy Information Administration (EIA), *Annual Energy Outlook 2002*, DOE/EIA-0383(2002) (Washington, DC, December 2001), Table B20; and EIA, *World Energy Projection System* (2002).

Table B4. World Oil Consumption by Region, High Economic Growth Case, 1990-2020
 (Million Barrels per Day)

Region/Country	History			Projections				Average Annual Percent Change, 1999-2020
	1990	1998	1999	2005	2010	2015	2020	
Industrialized Countries								
North America	20.4	22.7	23.4	26.5	29.8	33.0	36.3	2.1
United States ^a	17.0	18.9	19.5	21.6	24.1	26.4	28.5	1.8
Canada.	1.7	1.9	1.9	2.2	2.4	2.5	2.6	1.4
Mexico	1.7	1.9	2.0	2.7	3.3	4.1	5.1	4.7
Western Europe	12.5	14.1	13.9	15.3	15.9	16.5	17.0	1.0
United Kingdom	1.8	1.8	1.7	2.1	2.2	2.3	2.4	1.7
France	1.8	2.0	2.0	2.2	2.4	2.4	2.5	1.1
Germany.	2.7	2.9	2.8	3.2	3.3	3.4	3.4	0.9
Italy.	1.9	2.1	2.0	2.2	2.3	2.3	2.4	0.8
Netherlands	0.7	0.8	0.8	0.9	0.9	1.0	1.0	1.0
Other Western Europe.	3.6	4.5	4.5	4.7	4.9	5.1	5.2	0.7
Industrialized Asia	6.2	6.8	6.9	7.6	8.1	8.5	8.8	1.2
Japan	5.1	5.5	5.6	6.1	6.5	6.6	6.8	0.9
Australasia	1.0	1.3	1.3	1.5	1.7	1.8	2.0	2.1
Total Industrialized	39.0	43.6	44.2	49.5	53.8	57.9	62.1	1.6
EE/FSU								
Former Soviet Union	8.4	3.8	3.7	5.3	6.5	8.3	9.7	4.7
Eastern Europe	1.6	1.4	1.5	1.7	2.0	2.3	2.6	2.8
Total EE/FSU	10.0	5.2	5.2	7.0	8.5	10.6	12.3	4.2
Developing Countries								
Developing Asia	7.6	12.8	13.3	18.6	24.4	31.8	39.7	5.4
China.	2.3	4.1	4.3	5.7	7.6	10.0	12.8	5.3
India	1.2	1.8	1.9	2.7	3.6	4.8	5.9	5.5
South Korea	1.0	2.0	2.0	2.5	2.9	3.3	3.7	2.8
Other Asia	3.1	4.9	5.0	7.8	10.3	13.6	17.3	6.1
Middle East	3.9	5.0	5.0	6.1	7.2	8.6	10.3	3.5
Turkey	0.5	0.6	0.6	0.9	1.0	1.3	1.5	4.4
Other Middle East	3.4	4.3	4.4	5.2	6.2	7.4	8.8	3.3
Africa	2.1	2.5	2.5	3.6	4.5	5.5	6.7	4.7
Central and South America . . .	3.4	4.6	4.7	6.1	7.7	9.4	11.3	4.3
Brazil	1.3	1.9	2.0	2.3	2.9	3.5	4.4	4.0
Other Central/South America . .	2.1	2.7	2.7	3.8	4.9	5.8	6.9	4.5
Total Developing	17.0	24.8	25.5	34.4	43.8	55.2	68.0	4.8
Total World	66.0	73.6	74.9	90.8	106.1	123.8	142.4	3.1

^aIncludes the 50 States and the District of Columbia. U.S. Territories are included in Australasia.

Notes: EE/FSU = Eastern Europe/Former Soviet Union. Energy totals include net imports of coal coke and electricity generated from biomass in the United States. Totals may not equal sum of components due to independent rounding. The electricity portion of the national fuel consumption values consists of generation for domestic use plus an adjustment for electricity trade based on a fuel's share of total generation in the exporting country.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 1999*, DOE/EIA-0219(99) (Washington, DC, February 2001). **Projections:** EIA, *Annual Energy Outlook 2002*, DOE/EIA-0383(2002) (Washington, DC, December 2001), Table B21; and World Energy Projection System (2002).

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Table B5. World Natural Gas Consumption by Region, High Economic Growth Case, 1990-2020
 (Trillion Cubic Feet)

Region/Country	History			Projections				Average Annual Percent Change, 1999-2020
	1990	1998	1999	2005	2010	2015	2020	
Industrialized Countries								
North America	22.0	25.4	26.1	31.3	35.3	39.4	42.4	2.3
United States ^a	18.7	21.3	21.7	26.0	29.1	32.6	35.0	2.3
Canada.	2.4	2.9	3.1	3.5	3.8	4.2	4.6	1.9
Mexico	0.9	1.3	1.3	1.9	2.3	2.6	2.8	3.9
Western Europe	10.1	13.4	14.0	18.2	20.7	23.6	28.0	3.4
United Kingdom	2.1	3.1	3.3	3.9	4.5	5.1	6.0	3.0
France	1.0	1.3	1.3	1.9	2.2	2.6	3.2	4.2
Germany.	2.7	3.0	3.0	4.2	4.6	5.1	6.3	3.5
Italy.	1.7	2.2	2.4	3.0	3.4	3.9	4.3	2.8
Netherlands	1.5	1.8	1.7	2.0	2.2	2.3	2.5	1.8
Other Western Europe.	1.2	2.0	2.3	3.3	3.7	4.6	5.8	4.6
Industrialized Asia	2.6	3.5	3.6	4.1	4.3	4.9	5.6	2.2
Japan	1.9	2.5	2.6	3.0	3.0	3.4	4.0	2.0
Australasia	0.8	0.9	1.0	1.2	1.3	1.5	1.7	2.7
Total Industrialized	34.8	42.3	43.7	53.6	60.3	67.9	76.1	2.7
EE/FSU								
Former Soviet Union	25.0	19.9	20.1	22.7	26.2	31.2	36.7	2.9
Eastern Europe	3.1	2.5	2.4	3.1	4.4	6.1	7.8	5.7
Total EE/FSU	28.1	22.4	22.5	25.9	30.6	37.3	44.5	3.3
Developing Countries								
Developing Asia	3.0	5.6	6.0	12.0	16.7	22.7	29.9	7.9
China.	0.5	0.8	0.9	2.0	3.2	5.3	7.9	11.1
India	0.4	0.8	0.8	1.2	1.8	2.6	3.2	7.1
South Korea	0.1	0.5	0.6	1.2	1.5	2.1	2.7	7.5
Other Asia	1.9	3.6	3.8	7.6	10.2	12.8	16.1	7.1
Middle East	3.7	6.6	6.8	8.5	11.8	15.2	19.2	5.1
Turkey	0.1	0.4	0.4	0.5	0.7	1.0	1.4	5.6
Other Middle East	3.6	6.2	6.3	8.0	11.1	14.1	17.8	5.0
Africa	1.4	1.8	2.0	2.5	2.9	3.7	4.4	8.7
Central and South America . . .	2.0	3.1	3.2	5.2	8.7	13.9	18.6	8.7
Brazil	0.1	0.2	0.2	0.6	1.5	2.7	3.6	13.9
Other Central/South America . .	1.9	2.9	3.0	4.6	7.2	11.2	15.0	7.9
Total Developing	10.1	17.2	18.0	28.3	40.1	55.5	72.1	6.8
Total World	72.9	81.9	84.2	107.8	131.0	160.7	192.7	4.0

^aIncludes the 50 States and the District of Columbia. U.S. Territories are included in Australasia.

Notes: EE/FSU = Eastern Europe/Former Soviet Union. Energy totals include net imports of coal coke and electricity generated from biomass in the United States. Totals may not equal sum of components due to independent rounding. The electricity portion of the national fuel consumption values consists of generation for domestic use plus an adjustment for electricity trade based on a fuel's share of total generation in the exporting country.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 1999*, DOE/EIA-0219(99) (Washington, DC, February 2001). **Projections:** EIA, *Annual Energy Outlook 2002*, DOE/EIA-0383(2002) (Washington, DC, December 2001), Table B13; and World Energy Projection System (2002).

Table B6. World Coal Consumption by Region, High Economic Growth Case, 1990-2020
 (Million Short Tons)

Region/Country	History			Projections				Average Annual Percent Change, 1999-2020
	1990	1998	1999	2005	2010	2015	2020	
Industrialized Countries								
North America	959	1,121	1,122	1,273	1,375	1,449	1,585	1.7
United States ^a	895	1,040	1,045	1,181	1,271	1,335	1,462	1.6
Canada.	55	66	63	69	77	83	88	1.5
Mexico	9	15	13	22	27	31	36	4.9
Western Europe	894	566	546	514	508	497	469	-0.7
United Kingdom	119	70	65	63	61	57	47	-1.5
France	35	29	26	23	17	18	15	-2.6
Germany	528	269	258	245	249	247	236	-0.4
Italy.	23	19	19	18	18	16	16	-0.9
Netherlands	15	16	14	13	9	9	7	-3.0
Other Western Europe.	173	164	165	152	153	149	147	-0.5
Industrialized Asia	231	287	295	323	337	350	359	0.9
Japan	125	144	149	171	181	191	195	1.3
Australasia	106	142	145	152	156	159	164	0.6
Total Industrialized	2,084	1,974	1,963	2,110	2,220	2,295	2,413	1.0
EE/FSU								
Former Soviet Union	848	396	414	442	435	425	403	-0.1
Eastern Europe	527	414	363	365	356	344	324	-0.5
Total EE/FSU	1,375	810	778	807	791	769	727	-0.3
Developing Countries								
Developing Asia	1,583	1,903	1,686	2,335	2,942	3,606	4,405	4.7
China.	1,124	1,300	1,075	1,516	2,005	2,541	3,156	5.3
India	242	333	348	446	505	563	659	3.1
South Korea	42	60	65	82	93	106	116	2.8
Other Asia	175	210	197	291	339	397	474	4.3
Middle East	66	99	96	109	137	153	167	2.7
Turkey	60	86	84	97	114	125	136	2.4
Other Middle East	6	12	12	12	23	27	31	4.5
Africa	152	181	177	204	218	245	268	2.0
Central and South America . . .	26	42	41	51	58	65	74	2.8
Brazil	17	28	27	32	40	45	53	3.2
Other Central/South America . .	9	15	14	19	18	20	21	2.1
Total Developing	1,827	2,226	2,000	2,699	3,355	4,069	4,914	4.4
Total World	5,287	5,009	4,740	5,615	6,366	7,134	8,054	2.6

^aIncludes the 50 States and the District of Columbia. U.S. Territories are included in Australasia.

Notes: EE/FSU = Eastern Europe/Former Soviet Union. Totals may not equal sum of components due to independent rounding. The electricity portion of the national fuel consumption values consists of generation for domestic use plus an adjustment for electricity trade based on a fuel's share of total generation in the exporting country. To convert short tons to metric tons, divide each number in the table by 1.102.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 1999*, DOE/EIA-0219(99) (Washington, DC, February 2001). **Projections:** EIA, *Annual Energy Outlook 2002*, DOE/EIA-0383(2002) (Washington, DC, December 2001), Table B16; and World Energy Projection System (2002).

Appendix B

Table B7. World Nuclear Energy Consumption by Region, High Economic Growth Case, 1990-2020
 (Billion Kilowatthours)

Region/Country	History			Projections				Average Annual Percent Change, 1999-2020
	1990	1998	1999	2005	2010	2015	2020	
Industrialized Countries								
North America	649	750	808	865	847	820	818	0.1
United States ^a	577	674	728	759	737	707	702	-0.2
Canada.	69	68	70	96	100	103	106	2.0
Mexico	3	9	10	10	10	10	10	0.3
Western Europe	703	836	846	858	864	841	791	-0.3
United Kingdom	59	95	91	70	63	56	34	-4.6
France	298	369	375	408	424	437	463	1.0
Germany	145	154	161	160	154	147	112	-1.7
Italy.	0	0	0	0	0	0	0	—
Netherlands	3	4	4	4	0	0	0	-100.0
Other Western Europe.	198	215	215	216	222	202	182	-0.8
Industrialized Asia	192	316	309	333	363	394	421	1.5
Japan	192	316	309	333	363	394	421	1.5
Australasia	0	0	0	0	0	0	0	—
Total Industrialized	1,544	1,902	1,962	2,055	2,074	2,056	2,030	0.2
EE/FSU								
Former Soviet Union	201	183	190	217	222	233	208	0.4
Eastern Europe	54	61	60	82	78	86	99	2.4
Total EE/FSU	256	244	250	299	300	319	308	1.0
Developing Countries								
Developing Asia	88	145	160	248	331	417	548	12.2
China.	0	13	14	55	83	106	159	12.2
India	6	11	11	16	29	35	55	7.7
South Korea	50	85	98	128	137	177	218	3.9
Other Asia	32	36	37	49	82	99	116	5.6
Middle East	0	0	0	0	6	15	17	—
Turkey	0	0	0	0	0	0	0	—
Other Middle East	0	0	0	0	6	15	17	—
Africa	8	14	13	13	14	17	19	2.0
Central and South America . . .	9	10	11	18	19	18	29	4.9
Brazil	2	3	4	11	12	13	23	9.0
Other Central/South America . .	7	7	7	6	7	5	6	-0.8
Total Developing	105	169	184	279	371	467	613	5.9
Total World	1,905	2,315	2,396	2,634	2,745	2,841	2,950	1.0

^aIncludes the 50 States and the District of Columbia. U.S. Territories are included in Australasia.

Notes: EE/FSU = Eastern Europe/Former Soviet Union. Totals may not equal sum of components due to independent rounding. The electricity portion of the national fuel consumption values consists of generation for domestic use plus an adjustment for electricity trade based on a fuel's share of total generation in the exporting country.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 1999*, DOE/EIA-0219(99) (Washington, DC, February 2001). **Projections:** EIA, *Annual Energy Outlook 2002*, DOE/EIA-0383(2002) (Washington, DC, December 2001), Table B8; and World Energy Projection System (2002).

**Table B8. World Consumption of Hydroelectricity and Other Renewable Energy by Region,
High Economic Growth Case, 1990-2020**
(Quadrillion Btu)

Region/Country	History			Projections				Average Annual Percent Change, 1999-2020
	1990	1998	1999	2005	2010	2015	2020	
Industrialized Countries								
North America	9.5	10.7	11.4	12.4	13.7	14.8	15.7	1.5
United States ^a	6.1	6.9	7.3	8.1	8.5	9.3	9.9	1.4
Canada.	3.1	3.5	3.6	3.8	4.3	4.6	4.8	1.4
Mexico	0.3	0.4	0.4	0.5	0.8	1.0	1.0	4.0
Western Europe	4.5	5.4	5.6	6.7	7.3	8.0	8.8	2.2
United Kingdom	0.1	0.1	0.1	0.3	0.4	0.4	0.5	6.0
France	0.6	0.7	0.8	0.2	0.3	0.4	0.4	-3.1
Germany	0.3	0.3	0.4	0.6	0.8	0.9	1.0	5.2
Italy.	0.4	0.5	0.6	1.2	1.2	1.4	1.5	4.6
Netherlands	0.0	0.0	0.0	0.3	0.4	0.4	0.4	10.7
Other Western Europe.	3.2	3.7	3.7	4.1	4.3	4.5	5.0	1.5
Industrialized Asia	1.6	1.7	1.7	1.8	1.9	2.2	2.4	1.6
Japan	1.1	1.2	1.2	1.3	1.3	1.5	1.6	1.6
Australasia	0.4	0.5	0.5	0.6	0.6	0.7	0.7	1.8
Total Industrialized	15.6	17.9	18.6	21.0	23.0	24.9	26.9	1.8
EE/FSU								
Former Soviet Union	2.4	2.3	2.3	2.6	2.8	3.1	3.4	1.8
Eastern Europe	0.4	0.6	0.6	0.7	0.9	1.2	1.6	4.5
Total EE/FSU	2.8	3.0	3.0	3.3	3.7	4.3	5.0	2.5
Developing Countries								
Developing Asia	3.2	4.3	4.6	7.3	9.6	12.3	14.8	5.7
China.	1.3	2.1	2.3	3.6	4.8	6.3	8.0	6.1
India	0.7	0.8	0.9	1.2	1.5	1.8	2.0	4.2
South Korea	0.0	0.0	0.0	0.1	0.1	0.2	0.3	8.9
Other Asia	1.1	1.3	1.4	2.4	3.2	4.0	4.5	5.8
Middle East	0.4	0.6	0.5	0.8	1.0	1.5	2.0	6.6
Turkey	0.2	0.4	0.4	0.4	0.5	0.6	0.7	3.3
Other Middle East	0.1	0.2	0.2	0.4	0.5	0.9	1.3	10.2
Africa	0.6	0.7	0.7	0.9	1.0	1.3	1.5	3.6
Central and South America . . .	3.9	5.6	5.7	7.0	7.8	8.8	9.7	2.6
Brazil	2.2	3.1	3.3	4.1	4.6	4.8	4.9	2.0
Other Central/South America . .	1.7	2.5	2.4	2.9	3.2	4.0	4.8	3.3
Total Developing	8.0	11.1	11.5	16.1	19.4	23.8	28.0	4.3
Total World	26.5	32.0	33.1	40.3	46.1	53.0	59.8	2.9

^aIncludes the 50 States and the District of Columbia. U.S. Territories are included in Australasia.

Notes: EE/FSU = Eastern Europe/Former Soviet Union. Totals may not equal sum of components due to independent rounding. The electricity portion of the national fuel consumption values consists of generation for domestic use plus an adjustment for electricity trade based on a fuel's share of total generation in the exporting country. U.S. totals include net electricity imports, methanol, and liquid hydrogen.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 1999*, DOE/EIA-0219(99) (Washington, DC, February 2001). **Projections:** EIA, *Annual Energy Outlook 2002*, DOE/EIA-0383(2002) (Washington, DC, December 2001), Table B1; and World Energy Projection System (2002).

Appendix B

Table B9. World Net Electricity Consumption by Region, High Economic Growth Case, 1990-2020
 (Billion Kilowatthours)

Region/Country	History			Projections				Average Annual Percent Change, 1999-2020
	1990	1998	1999	2005	2010	2015	2020	
Industrialized Countries								
North America	3,362	4,046	3,904	4,668	5,264	5,857	6,456	2.4
United States ^a	2,817	3,400	3,236	3,833	4,284	4,735	5,173	2.3
Canada.	438	485	498	581	646	700	752	2.0
Mexico	107	162	171	254	334	422	531	5.5
Western Europe	2,077	2,399	2,435	2,842	3,111	3,393	3,744	2.1
United Kingdom	287	330	333	390	423	459	493	1.9
France	326	394	399	444	490	534	594	1.9
Germany	489	492	495	590	642	692	756	2.0
Italy.	222	266	272	349	395	444	496	2.9
Netherlands	72	95	98	114	125	137	150	2.0
Other Western Europe.	681	822	838	954	1,036	1,128	1,255	1.9
Industrialized Asia	945	1,158	1,178	1,362	1,474	1,592	1,715	1.8
Japan	765	932	947	1,084	1,168	1,258	1,349	1.7
Australasia	181	226	231	278	306	334	366	2.2
Total Industrialized	6,385	7,604	7,517	8,872	9,849	10,842	11,915	2.2
EE/FSU								
Former Soviet Union	1,488	1,068	1,075	1,243	1,418	1,666	1,904	2.8
Eastern Europe	418	390	377	442	516	617	712	3.1
Total EE/FSU	1,906	1,459	1,452	1,685	1,934	2,283	2,616	2.8
Developing Countries								
Developing Asia	1,259	2,175	2,319	3,217	4,267	5,573	7,103	5.5
China.	551	1,013	1,084	1,436	2,001	2,722	3,602	5.9
India	257	396	424	555	699	878	1,069	4.5
South Korea	93	207	233	294	344	415	487	3.6
Other Asia	357	560	578	932	1,223	1,558	1,944	5.9
Middle East	263	470	494	578	742	928	1,155	4.1
Turkey	51	102	106	134	167	205	250	4.2
Other Middle East	213	368	388	444	575	724	904	4.1
Africa	287	361	367	504	629	810	980	4.8
Central and South America . . .	449	656	684	899	1,176	1,529	1,891	5.0
Brazil	229	334	354	461	588	736	898	4.5
Other Central/South America .	220	322	330	438	588	794	993	5.4
Total Developing	2,258	3,663	3,863	5,198	6,815	8,840	11,128	5.2
Total World	10,549	12,725	12,833	15,756	18,598	21,965	25,659	3.4

^aIncludes the 50 States and the District of Columbia. U.S. Territories are included in Australasia.

Notes: EE/FSU = Eastern Europe/Former Soviet Union. Electricity consumption equals generation plus imports minus exports minus distribution losses.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 1999*, DOE/EIA-0219(99) (Washington, DC, February 2001). **Projections:** EIA, *Annual Energy Outlook 2002*, DOE/EIA-0383(2002) (Washington, DC, December 2001), Table B2; and World Energy Projection System (2002).

Table B10. World Carbon Dioxide Emissions by Region, High Economic Growth Case, 1990-2020
 (Million Metric Tons Carbon Equivalent)

Region/Country	History			Projections				Average Annual Percent Change, 1999-2020
	1990	1998	1999	2005	2010	2015	2020	
Industrialized Countries								
North America	1,562	1,742	1,767	2,023	2,244	2,453	2,678	2.0
United States ^a	1,352	1,495	1,517	1,714	1,887	2,046	2,215	1.8
Canada.	126	146	150	168	183	196	208	1.6
Mexico	84	101	101	141	174	211	256	4.5
Western Europe	930	947	940	1,041	1,095	1,153	1,227	1.3
United Kingdom	164	154	151	174	186	197	209	1.6
France	102	110	109	123	129	138	149	1.5
Germany	271	237	230	255	266	275	291	1.1
Italy.	112	122	121	137	147	154	162	1.4
Netherlands	58	66	64	69	70	74	76	0.8
Other Western Europe.	223	260	264	284	298	315	340	1.2
Industrialized Asia	357	412	422	469	496	523	550	1.3
Japan	269	300	307	342	359	375	392	1.2
Australasia	88	112	115	127	137	147	159	1.5
Total Industrialized	2,849	3,101	3,129	3,534	3,836	4,129	4,456	0.0
EE/FSU								
Former Soviet Union	1,036	599	607	718	814	950	1,080	2.8
Eastern Europe	301	217	203	224	250	285	313	2.1
Total EE/FSU	1,337	816	810	942	1,064	1,235	1,393	2.6
Developing Countries								
Developing Asia	1,053	1,435	1,361	1,950	2,516	3,192	3,966	5.2
China.	617	765	669	940	1,255	1,629	2,058	5.5
India	153	231	242	321	392	478	574	4.2
South Korea	61	101	107	142	164	193	220	3.5
Other Asia	223	338	343	547	704	891	1,114	5.8
Middle East	231	325	330	401	503	613	747	4.0
Turkey	35	50	50	63	77	92	110	3.8
Other Middle East	196	275	280	338	426	521	637	4.0
Africa	179	216	218	281	328	394	460	3.6
Central and South America . . .	178	246	249	339	459	607	759	5.4
Brazil.	62	87	88	109	146	191	240	4.9
Other Central/South America . .	116	159	162	230	314	416	519	5.7
Total Developing	1,641	2,222	2,158	2,971	3,806	4,806	5,932	4.9
Total World	5,827	6,139	6,097	7,446	8,706	10,170	11,781	3.2

^aIncludes the 50 States and the District of Columbia. U.S. Territories are included in Australasia.

Notes: EE/FSU = Eastern Europe/Former Soviet Union. The U.S. numbers include carbon dioxide emissions attributable to renewable energy sources.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 1999*, DOE/EIA-0219(99) (Washington, DC, February 2001). **Projections:** EIA, *Annual Energy Outlook 2002*, DOE/EIA-0383(2002) (Washington, DC, December 2001), Table B19; and World Energy Projection System (2002).

Appendix B

Table B11. World Carbon Dioxide Emissions from Oil Use by Region, High Economic Growth Case, 1990-2020
 (Million Metric Tons Carbon Equivalent)

Region/Country	History			Projections				Average Annual Percent Change, 1999-2020
	1990	1998	1999	2005	2010	2015	2020	
Industrialized Countries								
North America	716	775	793	894	1,008	1,120	1,235	2.1
United States ^a	590	635	650	714	799	876	948	1.8
Canada.	61	66	68	77	83	87	90	1.4
Mexico	65	74	76	103	127	157	197	4.7
Western Europe	474	525	517	570	592	611	632	1.0
United Kingdom	66	65	63	77	81	85	89	1.7
France	67	72	72	79	84	87	90	1.1
Germany	103	107	104	117	120	123	126	0.9
Italy.	74	78	74	83	85	87	89	0.8
Netherlands	27	30	31	33	35	37	38	1.0
Other Western Europe.	138	172	173	181	188	193	200	0.7
Industrialized Asia	217	230	233	259	275	288	299	1.2
Japan	179	183	185	204	215	221	225	0.9
Australasia	38	46	48	55	61	67	74	2.1
Total Industrialized	1,407	1,529	1,543	1,722	1,875	2,019	2,166	1.6
EE/FSU								
Former Soviet Union	334	148	146	207	254	323	380	4.7
Eastern Europe	66	55	55	64	75	88	98	2.8
Total EE/FSU	400	202	201	271	330	411	479	4.2
Developing Countries								
Developing Asia	304	479	496	696	911	1,187	1,484	5.4
China.	94	152	160	209	280	371	474	5.3
India	45	70	73	101	136	184	226	5.5
South Korea	38	60	62	77	89	101	112	2.8
Other Asia	127	197	201	309	406	530	671	5.9
Middle East	155	195	198	239	284	339	406	3.5
Turkey	17	22	22	30	36	44	53	4.4
Other Middle East	138	173	177	210	247	295	353	3.4
Africa	83	95	97	138	172	211	256	4.7
Central and South America . . .	132	173	176	230	292	355	427	4.3
Brazil	51	70	71	84	104	128	160	4.0
Other Central/South America . .	81	104	105	146	188	226	267	4.5
Total Developing	674	942	968	1,303	1,658	2,091	2,573	4.8
Total World	2,482	2,673	2,712	3,297	3,863	4,520	5,218	3.2

^aIncludes the 50 States and the District of Columbia. U.S. Territories are included in Australasia.

Notes: EE/FSU = Eastern Europe/Former Soviet Union.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 1999*, DOE/EIA-0219(99) (Washington, DC, February 2001). **Projections:** EIA, *Annual Energy Outlook 2002*, DOE/EIA-0383(2002) (Washington, DC, December 2001), Table B19; and World Energy Projection System (2002).

Table B12. World Carbon Dioxide Emissions from Natural Gas Use by Region, High Economic Growth Case, 1990-2020
 (Million Metric Tons Carbon Equivalent)

Region/Country	History			Projections				Average Annual Percent Change, 1999-2020
	1990	1998	1999	2005	2010	2015	2020	
Industrialized Countries								
North America	326	377	381	461	518	580	623	2.4
United States ^a	277	315	317	381	427	479	513	2.3
Canada.	35	42	46	51	56	62	67	1.9
Mexico	15	20	19	28	35	40	43	3.9
Western Europe	140	196	206	268	306	349	416	3.4
United Kingdom	30	47	50	60	68	78	92	3.0
France	16	21	21	30	36	41	50	3.5
Germany	32	42	43	59	65	72	89	3.5
Italy.	25	32	35	44	51	57	64	2.8
Netherlands	20	23	22	25	28	30	32	1.8
Other Western Europe.	18	31	35	51	58	71	89	4.6
Industrialized Asia	36	52	54	62	65	73	85	2.1
Japan	24	38	40	45	45	51	60	2.0
Australasia	12	14	14	17	20	22	25	2.7
Total Industrialized	503	626	641	790	889	1,002	1,123	2.7
EE/FSU								
Former Soviet Union	369	291	294	332	383	455	537	2.9
Eastern Europe	46	36	35	46	65	90	114	5.7
Total EE/FSU	414	327	329	378	448	545	651	3.3
Developing Countries								
Developing Asia	45	86	92	184	256	352	464	8.0
China.	8	13	14	33	53	89	131	11.1
India	7	13	12	21	30	42	52	7.1
South Korea	2	8	10	19	24	33	44	7.5
Other Asia	29	53	56	111	150	188	236	7.1
Middle East	56	100	102	129	178	229	290	5.1
Turkey	2	6	7	8	11	16	21	5.6
Other Middle East	54	94	96	121	167	213	269	5.0
Africa	22	29	31	39	45	58	68	3.9
Central and South America . . .	32	49	51	82	136	217	292	8.7
Brazil	2	3	4	9	22	40	54	13.9
Other Central/South America . .	30	46	47	73	114	177	237	8.0
Total Developing	155	263	276	434	616	856	1,114	6.9
Total World	1,072	1,216	1,247	1,602	1,953	2,404	2,888	4.1

^aIncludes the 50 States and the District of Columbia. U.S. Territories are included in Australasia.

Notes: EE/FSU = Eastern Europe/Former Soviet Union.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 1999*, DOE/EIA-0219(99) (Washington, DC, February 2001). **Projections:** EIA, *Annual Energy Outlook 2002*, DOE/EIA-0383(2002) (Washington, DC, December 2001), Table B19; and World Energy Projection System (2002).

Appendix B

Table B13. World Carbon Dioxide Emissions from Coal Use by Region, High Economic Growth Case, 1990-2020
 (Million Metric Tons Carbon Equivalent)

Region/Country	History			Projections				Average Annual Percent Change, 1999-2020
	1990	1998	1999	2005	2010	2015	2020	
Industrialized Countries								
North America	520	595	592	669	718	754	820	1.6
United States ^a	485	550	549	619	661	692	754	1.5
Canada.	31	38	36	40	44	47	50	1.5
Mexico	4	7	6	10	12	14	16	4.9
Western Europe	315	225	216	203	198	192	179	-0.9
United Kingdom	68	42	39	38	37	34	28	-1.5
France	20	17	15	14	10	10	9	-2.6
Germany	137	87	83	79	81	80	76	-0.4
Italy.	14	11	12	11	11	10	10	-0.9
Netherlands	11	13	11	10	7	7	6	-3.0
Other Western Europe.	66	56	56	52	52	51	50	-0.5
Industrialized Asia	104	130	135	149	156	162	166	1.0
Japan	66	78	81	93	99	104	106	1.3
Australasia	38	52	53	56	57	58	60	0.6
Total Industrialized	939	951	943	1,021	1,071	1,109	1,166	1.0
EE/FSU								
Former Soviet Union	333	160	168	179	176	172	163	-0.1
Eastern Europe	189	127	113	113	110	107	100	-0.5
Total EE/FSU	522	287	280	292	287	279	263	-0.3
Developing Countries								
Developing Asia	704	870	773	1,070	1,349	1,653	2,018	4.7
China.	514	600	495	698	923	1,169	1,452	5.3
India	101	148	156	200	227	252	295	3.1
South Korea	21	33	36	45	51	58	63	2.8
Other Asia	67	88	87	127	148	173	207	4.2
Middle East	20	30	29	33	41	46	50	2.7
Turkey	16	23	21	25	29	32	35	2.4
Other Middle East	4	7	7	8	12	14	15	3.5
Africa	74	93	90	104	111	125	136	2.0
Central and South America . . .	15	23	22	27	31	35	40	2.8
Brazil	9	14	13	16	20	22	26	3.2
Other Central/South America . .	5	9	9	12	12	13	14	2.3
Total Developing	812	1,017	914	1,234	1,532	1,859	2,245	4.4
Total World	2,274	2,254	2,137	2,547	2,889	3,246	3,674	2.6

^aIncludes the 50 States and the District of Columbia. U.S. Territories are included in Australasia.

Notes: EE/FSU = Eastern Europe/Former Soviet Union.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 1999*, DOE/EIA-0219(99) (Washington, DC, February 2001). **Projections:** EIA, *Annual Energy Outlook 2002*, DOE/EIA-0383(2002) (Washington, DC, December 2001), Table B19; and World Energy Projection System (2002).

Table B14. World Nuclear Generating Capacity by Region and Country, High Economic Growth Case, 1999-2020
 (Megawatts)

Region/Country	History		Projections			
	1999	2000	2005	2010	2015	2020
Industrialized Countries						
North America	108,776	108,867	112,656	110,404	104,897	106,087
United States	97,470	97,509	97,700	95,448	89,941	89,131
Canada	9,998	9,998	13,596	13,596	13,596	14,596
Mexico	1,308	1,360	1,360	1,360	1,360	2,360
Industrialized Asia	43,691	43,491	46,681	48,705	63,768	68,818
Japan	43,691	43,491	46,681	48,705	63,768	68,818
Western Europe	125,991	125,726	125,480	123,997	124,424	126,643
Belgium	5,712	5,712	5,712	5,712	5,712	5,712
Finland	2,656	2,656	2,656	3,656	3,656	4,656
France	63,103	63,153	63,153	62,920	64,370	64,370
Germany	21,122	21,122	21,122	20,142	18,975	18,735
Italy	0	0	0	0	0	1,000
Netherlands	449	449	449	449	0	0
Spain	7,470	7,512	7,512	7,512	8,512	7,913
Sweden	9,432	9,432	9,432	9,432	9,432	7,507
Switzerland	3,079	3,192	3,192	3,192	3,192	4,392
United Kingdom	12,968	12,498	12,252	10,982	10,575	12,358
Total Industrialized	278,458	278,084	284,817	283,106	293,089	301,548
EE/FSU						
Eastern Europe	10,605	10,675	12,508	11,934	11,098	13,039
Bulgaria	3,538	3,538	3,538	2,722	1,906	2,859
Czech Republic	1,648	1,648	3,481	3,481	3,481	3,481
Hungary	1,729	1,755	1,755	1,755	1,755	2,355
Romania	650	650	650	1,300	1,300	1,300
Slovakia	2,408	2,408	2,408	2,000	1,980	2,368
Slovenia	632	676	676	676	676	676
Former Soviet Union	34,704	33,796	36,652	38,597	40,560	42,762
Armenia	376	376	376	376	376	0
Kazakhstan	0	0	0	0	0	600
Lithuania	2,370	2,370	2,370	1,185	1,000	1,000
Russia	19,843	19,843	22,699	23,929	26,077	26,155
Ukraine	12,115	11,207	11,207	13,107	13,107	15,007
Total EE/FSU	45,309	44,471	49,160	50,531	51,658	55,801

See notes at end of table.

Appendix B

Table B14. World Nuclear Generating Capacity by Region and Country, High Economic Growth Case, 1999-2020 (Continued)
 (Megawatts)

Region/Country	History		Projections			
	1999	2000	2005	2010	2015	2020
Developing Countries						
Developing Asia	22,063	22,777	32,219	43,369	57,663	69,849
China	2,167	2,177	7,597	11,597	18,617	20,607
India	1,897	2,301	2,503	4,273	8,253	9,253
Korea, North	0	0	0	0	950	1,900
Korea, South	12,990	12,990	16,810	19,660	21,404	26,175
Pakistan	125	425	425	425	1,025	900
Taiwan	4,884	4,884	4,884	7,414	7,414	9,414
Thailand	0	0	0	0	0	600
Vietnam	0	0	0	0	0	1,000
Central and South America	1,561	2,790	2,790	4,019	4,019	5,109
Argentina	935	935	935	935	935	1,025
Brazil	626	1,855	1,855	3,084	3,084	4,084
Middle East.	0	0	1,073	2,146	2,586	4,626
Israel	0	0	0	0	0	600
Iran	0	0	1,073	2,146	2,586	3,026
Turkey	0	0	0	0	0	1,000
Africa	1,842	1,800	1,800	2,060	2,320	3,440
Egypt	0	0	0	0	0	600
South Africa	1,842	1,800	1,800	2,060	2,320	2,840
Total Developing	25,466	27,367	37,882	51,594	66,588	83,024
Total World	349,233	349,922	371,859	385,231	411,335	440,373

Sources: **History:** International Atomic Energy Agency, *Nuclear Power Reactors in the World 2000* (Vienna, Austria, April 2001).
Projections: Energy Information Administration (EIA), *Annual Energy Outlook 2002*, DOE/EIA-0383(2002) (Washington, DC, December 2001), Table A9; and EIA, Office of Coal, Nuclear, Electric and Alternate Fuels, based on detailed assessments of country-specific nuclear power plants.

Table B15. World Total Energy Consumption in Oil-Equivalent Units by Region, High Economic Growth Case, 1990-2020
 (Million Tons Oil Equivalent)

Region/Country	History			Projections				Average Annual Percent Change, 1999-2020
	1990	1998	1999	2005	2010	2015	2020	
Industrialized Countries								
North America	2,522	2,841	2,916	3,324	3,664	3,987	4,315	1.9
United States ^a	2,121	2,383	2,446	2,749	3,001	3,243	3,484	1.7
Canada.	275	305	316	362	396	423	448	1.7
Mexico	126	153	155	214	268	321	384	4.4
Western Europe	1,508	1,659	1,664	1,861	1,971	2,080	2,218	1.4
United Kingdom	234	251	250	279	298	318	337	1.4
France	222	256	258	293	314	332	359	1.6
Germany	373	357	352	401	421	438	462	1.3
Italy.	176	201	203	232	249	266	282	1.6
Netherlands	85	96	97	107	112	118	124	1.2
Other Western Europe.	419	498	504	549	577	608	655	1.3
Industrialized Asia	574	695	704	781	829	881	934	1.4
Japan	452	541	547	605	637	674	710	1.2
Australasia	122	153	157	176	192	207	225	1.7
Total Industrialized	4,604	5,194	5,284	5,966	6,464	6,948	7,467	1.7
EE/FSU								
Former Soviet Union	1,529	975	988	1,165	1,322	1,545	1,757	2.8
Eastern Europe	393	299	283	324	374	443	505	2.8
Total EE/FSU	1,923	1,274	1,271	1,489	1,696	1,988	2,263	2.8
Developing Countries								
Developing Asia	1,286	1,837	1,788	2,618	3,402	4,352	5,428	5.4
China.	681	890	803	1,153	1,549	2,030	2,590	5.7
India	196	293	307	414	515	641	772	4.5
South Korea	92	173	185	246	284	340	395	3.7
Other Asia	317	481	492	805	1,054	1,341	1,671	6.0
Middle East	330	481	487	599	760	940	1,156	4.2
Turkey	50	76	74	93	115	139	168	4.0
Other Middle East	280	405	413	506	645	801	988	4.2
Africa	235	292	297	385	453	549	645	3.8
Central and South America . . .	346	489	498	667	869	1,126	1,387	5.0
Brazil.	142	208	215	258	324	399	479	3.9
Other Central/South America . .	204	282	283	409	545	727	908	5.7
Total Developing	2,197	3,100	3,069	4,269	5,484	6,966	8,615	5.0
Total World	8,724	9,568	9,623	11,724	13,644	15,902	18,345	3.1

^aIncludes the 50 States and the District of Columbia. U.S. Territories are included in Australasia.

Notes: EE/FSU = Eastern Europe/Former Soviet Union.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 1999*, DOE/EIA-0219(99) (Washington, DC, February 2001). **Projections:** EIA, *Annual Energy Outlook 2002*, DOE/EIA-0383(2002) (Washington, DC, December 2001), Table B1; and World Energy Projection System (2002).

